

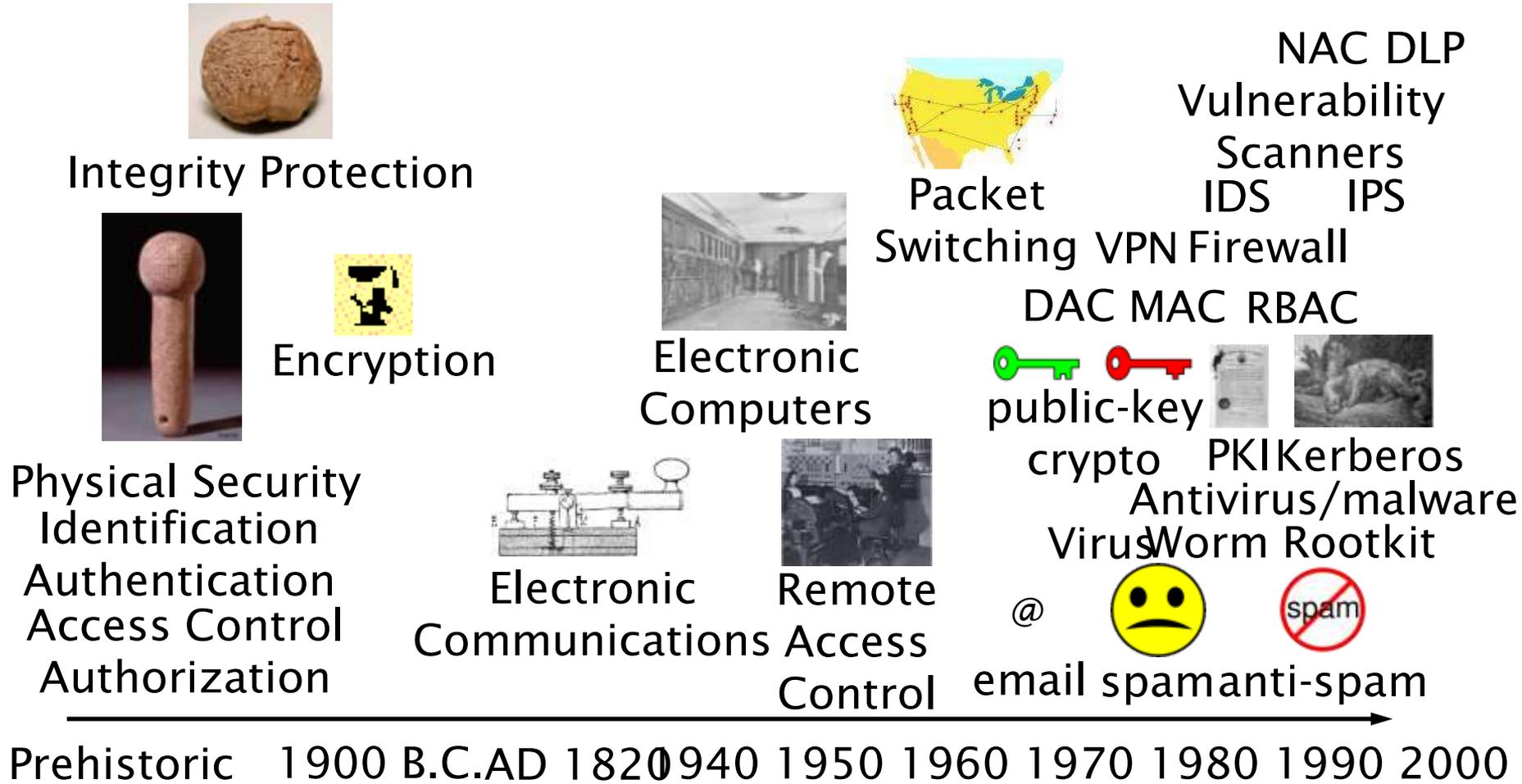


---

# Security: A Coordinated Approach

Steve Hanna

# Information Security Timeline



# Information Security Past

Server/Service  
Security

**Identity  
Management**

**Server  
Security**

**Web Services  
Security**

**Network Intrusion  
Detection & Prevention**

**Network Anti-Virus**

**Network  
Firewall**

Network  
Security

**Data Loss  
Prevention**

**Vulnerability  
Scanners**

**Virtual Private  
Networks**

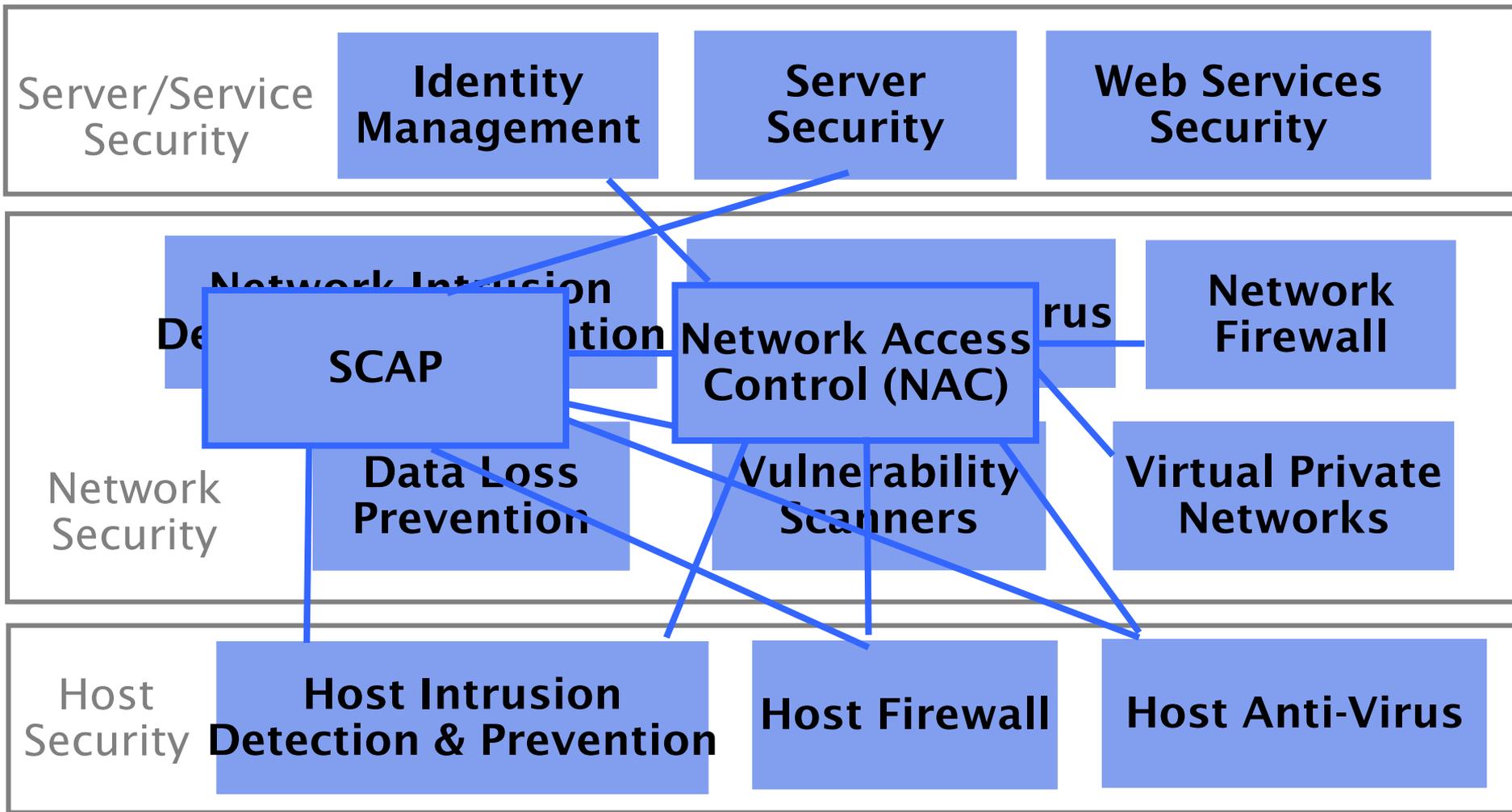
Host  
Security

**Host Intrusion  
Detection & Prevention**

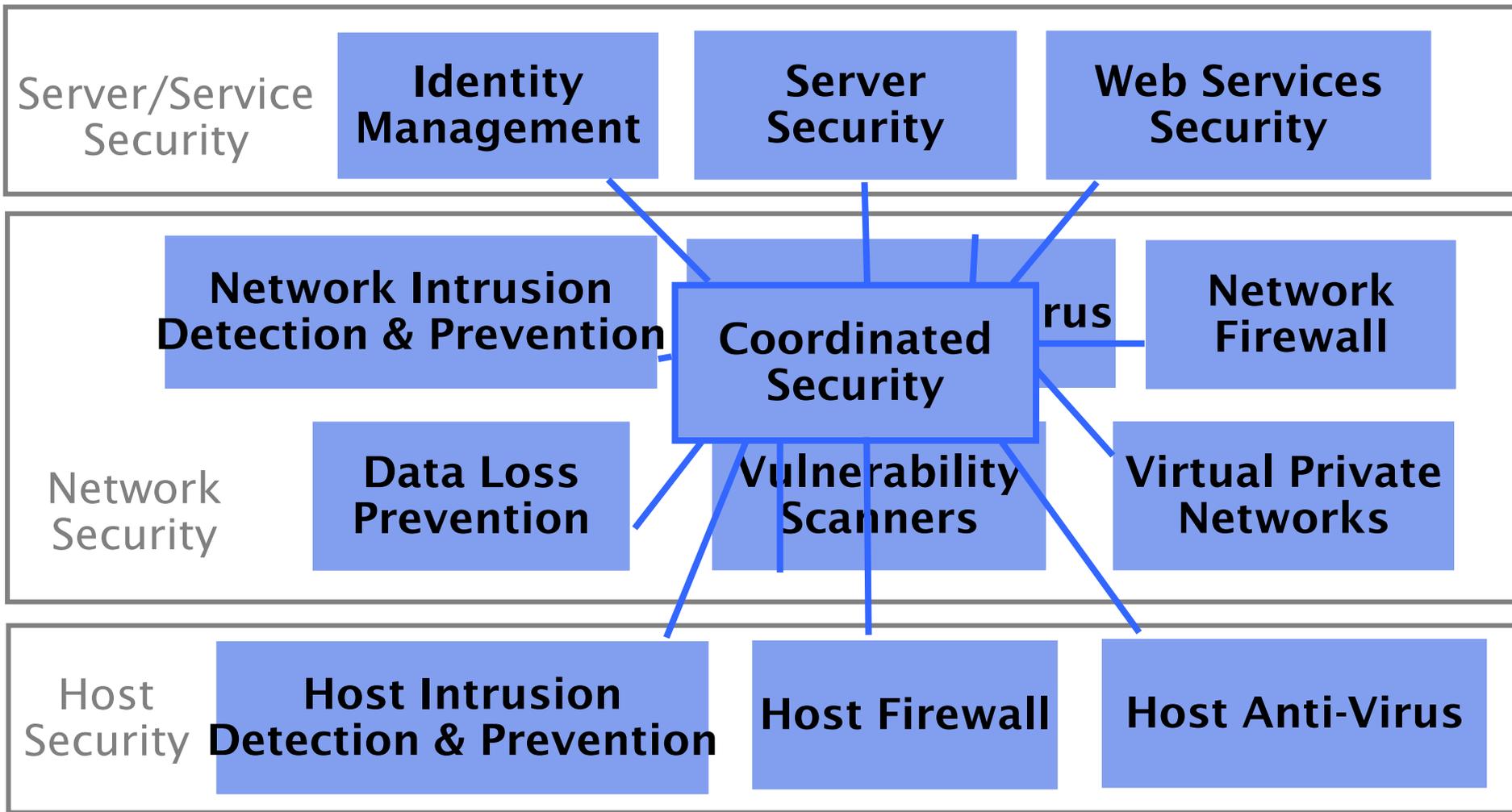
**Host Firewall**

**Host Anti-Virus**

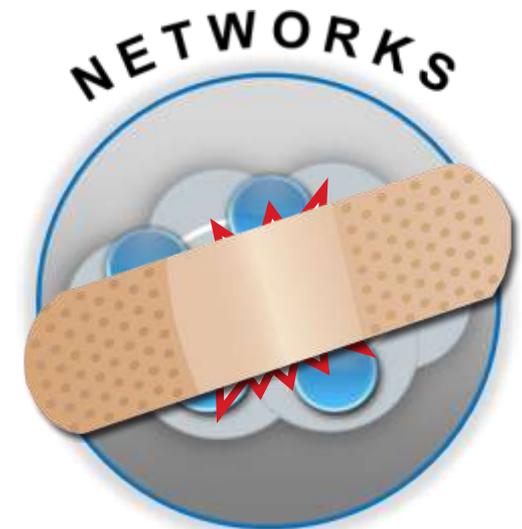
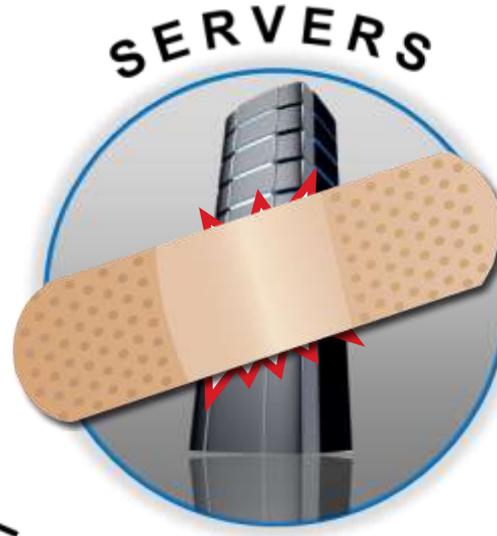
# Information Security Present



# Information Security Future



# Ad Hoc Defense



# A More Secure Alternative



# Trusted Clients



## Security Built In

- Trusted Platform Module (TPM)
- Mobile Trusted Module (MTM)

## Features

- Authentication
- Encryption
- Attestation

# Trusted Servers



## Security Built In

- Trusted Platform Module (TPM)
- Secure Virtualization
- Secure Cloud

## Features

- Authentication
- Encryption
- Attestation

# Trusted Storage



## Security Built In

- Self Encrypting Drive (SED)

## Features

- Encryption
- Authentication
- Secure Erasure

# Trusted Networks



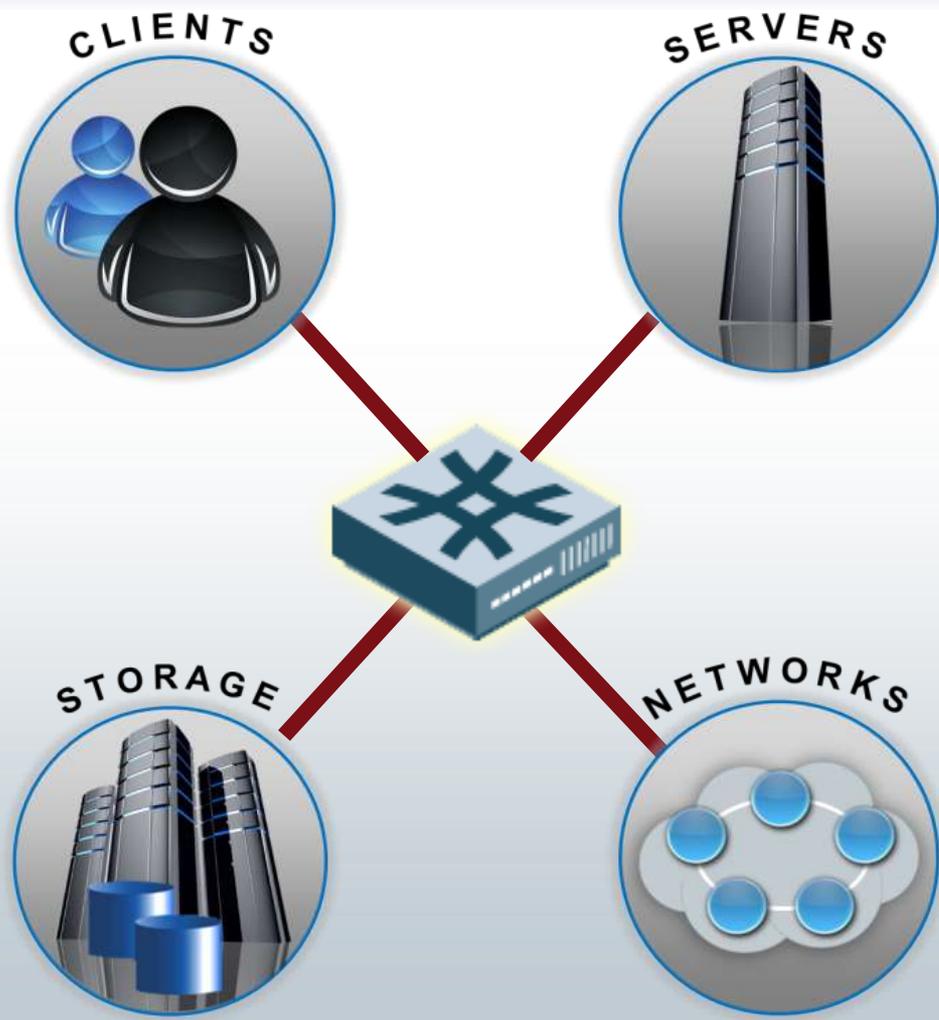
## Security Built In & Coordinated

- Trusted Network Connect (TNC)

## Features

- Authenticate
- Health Check
- Behavior Monitor
- Enforce

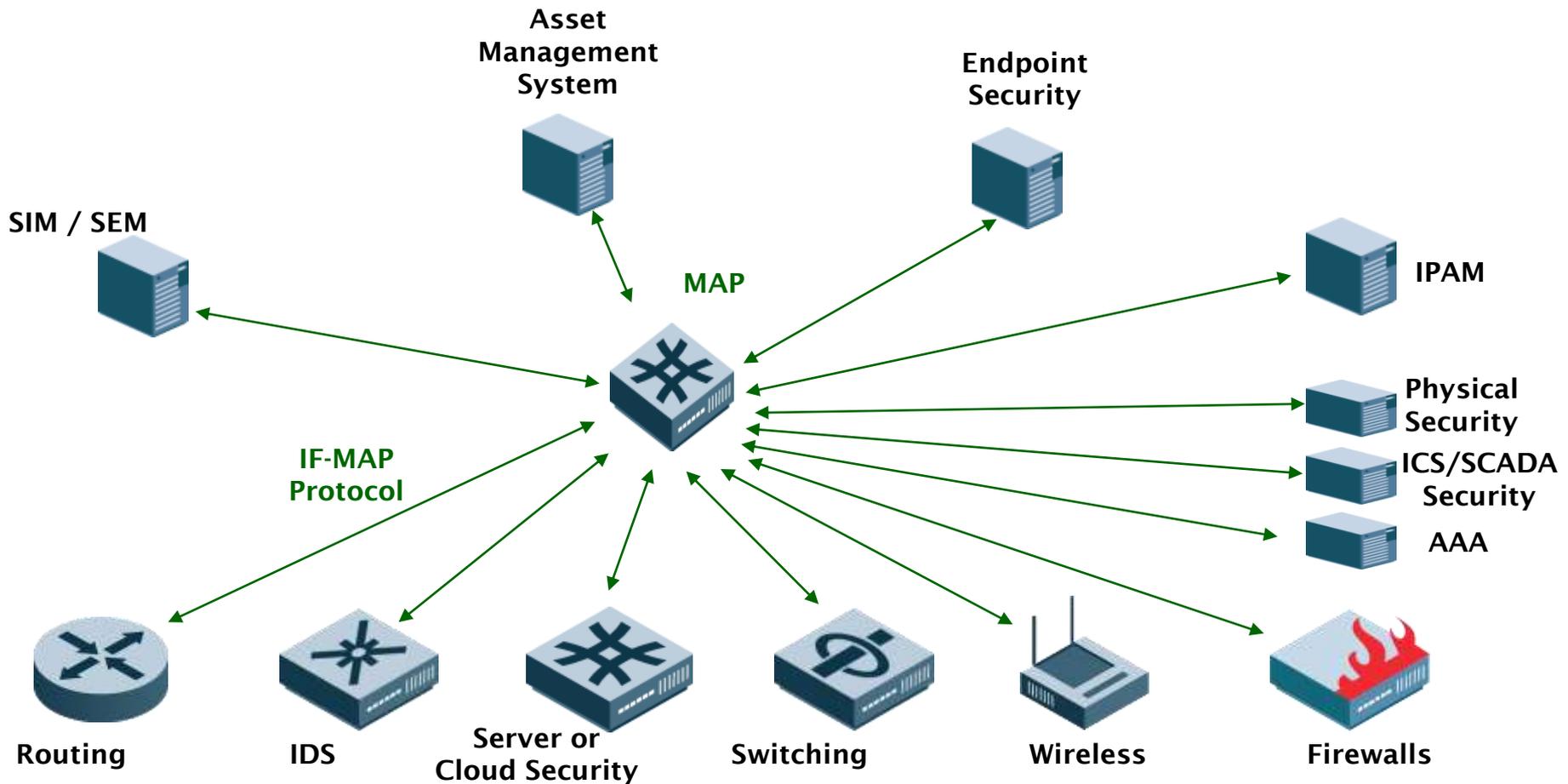
# Coordinated Security



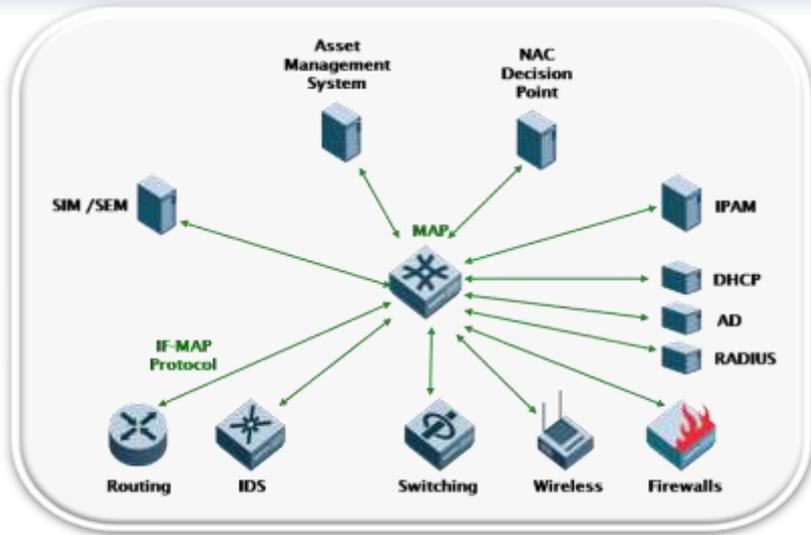
Share

- Who, What, When, Where, Privileges
- Threats
- Policies
- Cooperative Defense

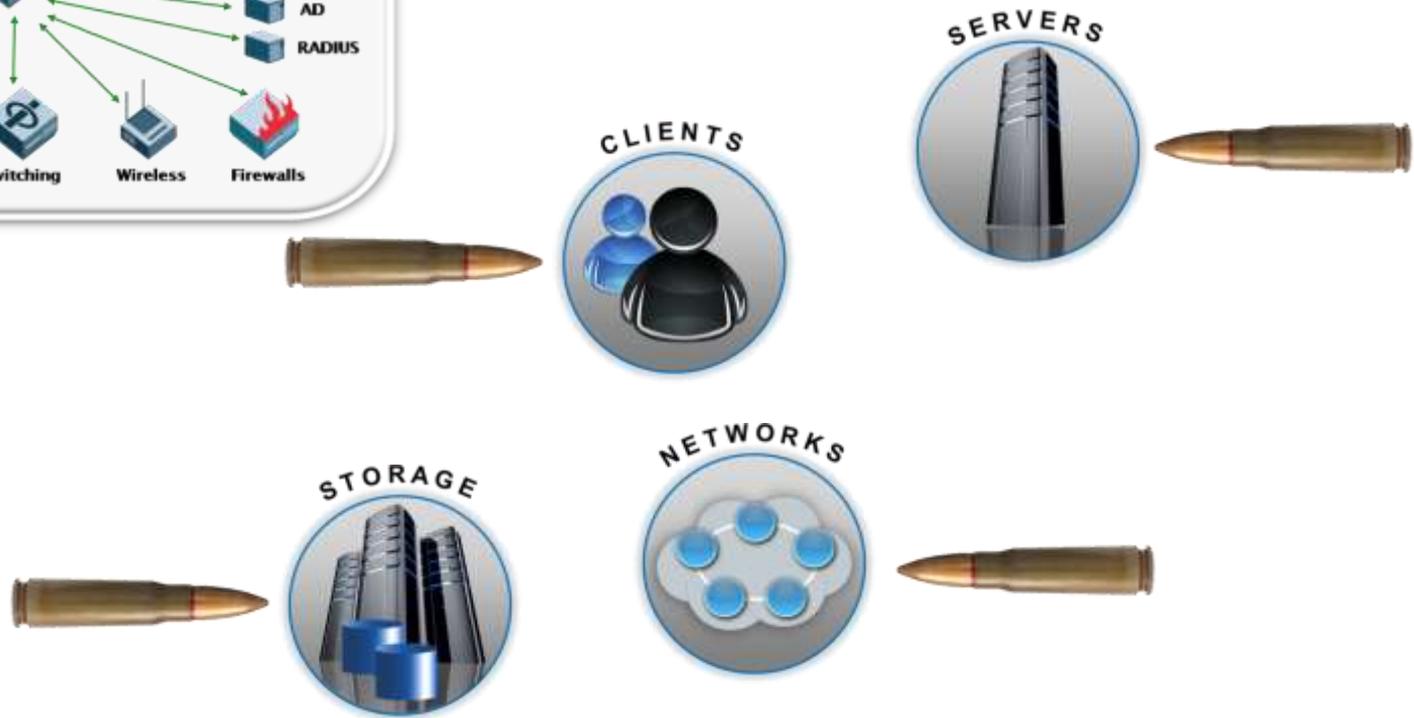
# All Through Open Standards



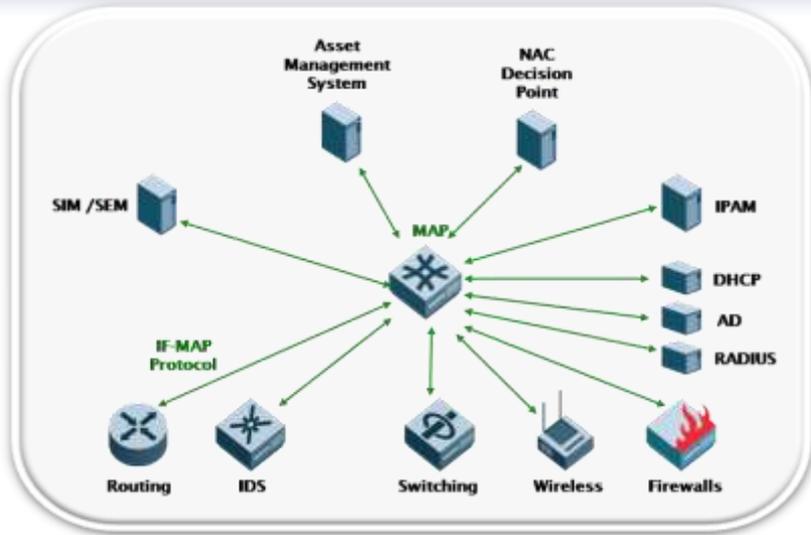
# Benefits



## Stronger security



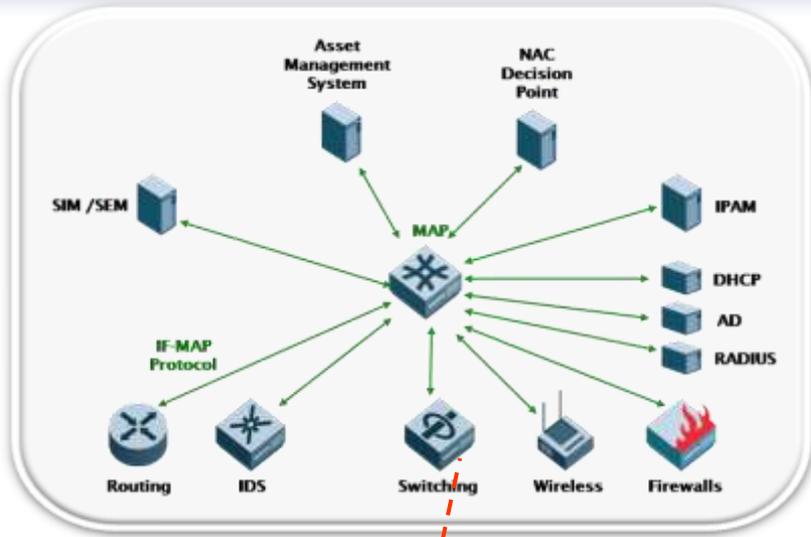
# Benefits



## Faster Response



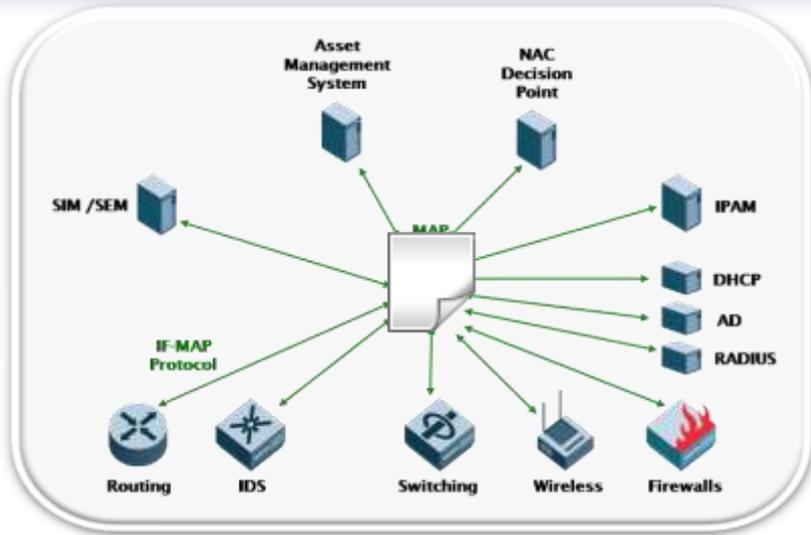
# Benefits



More flexibility



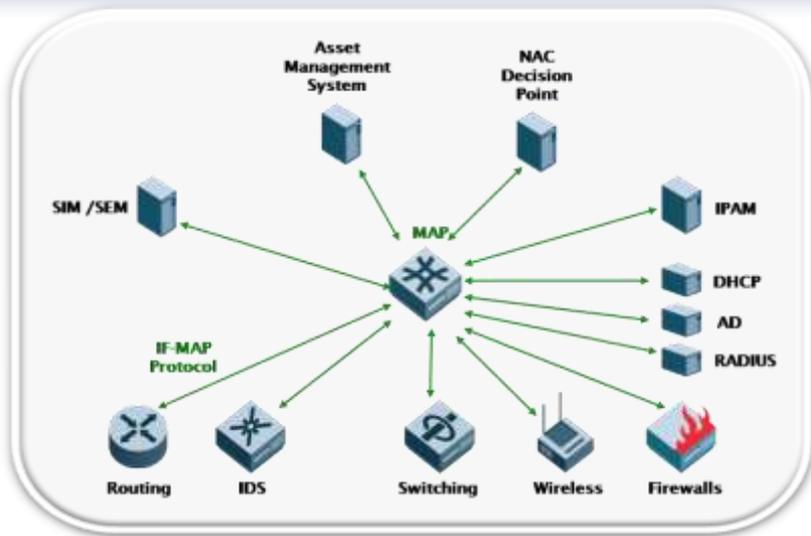
# Benefits



## Single security policy



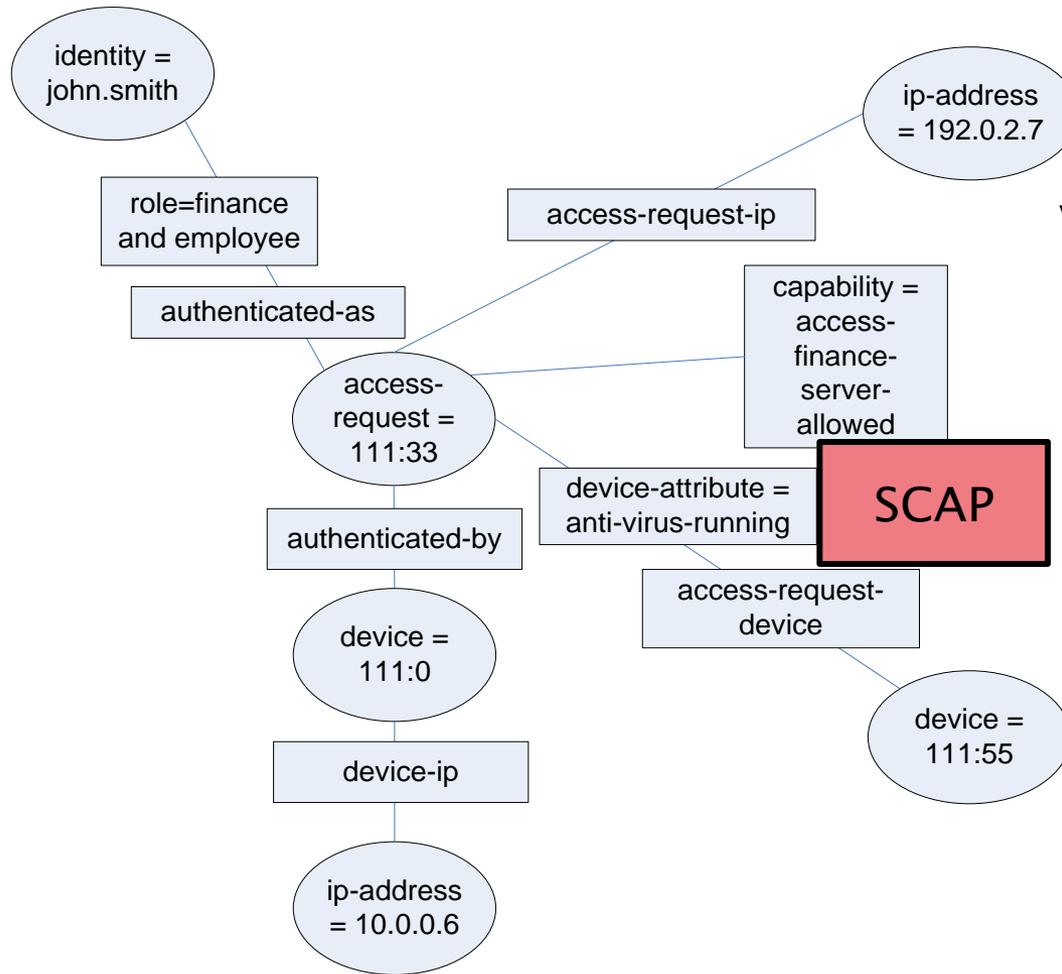
# Benefits



## Product choice



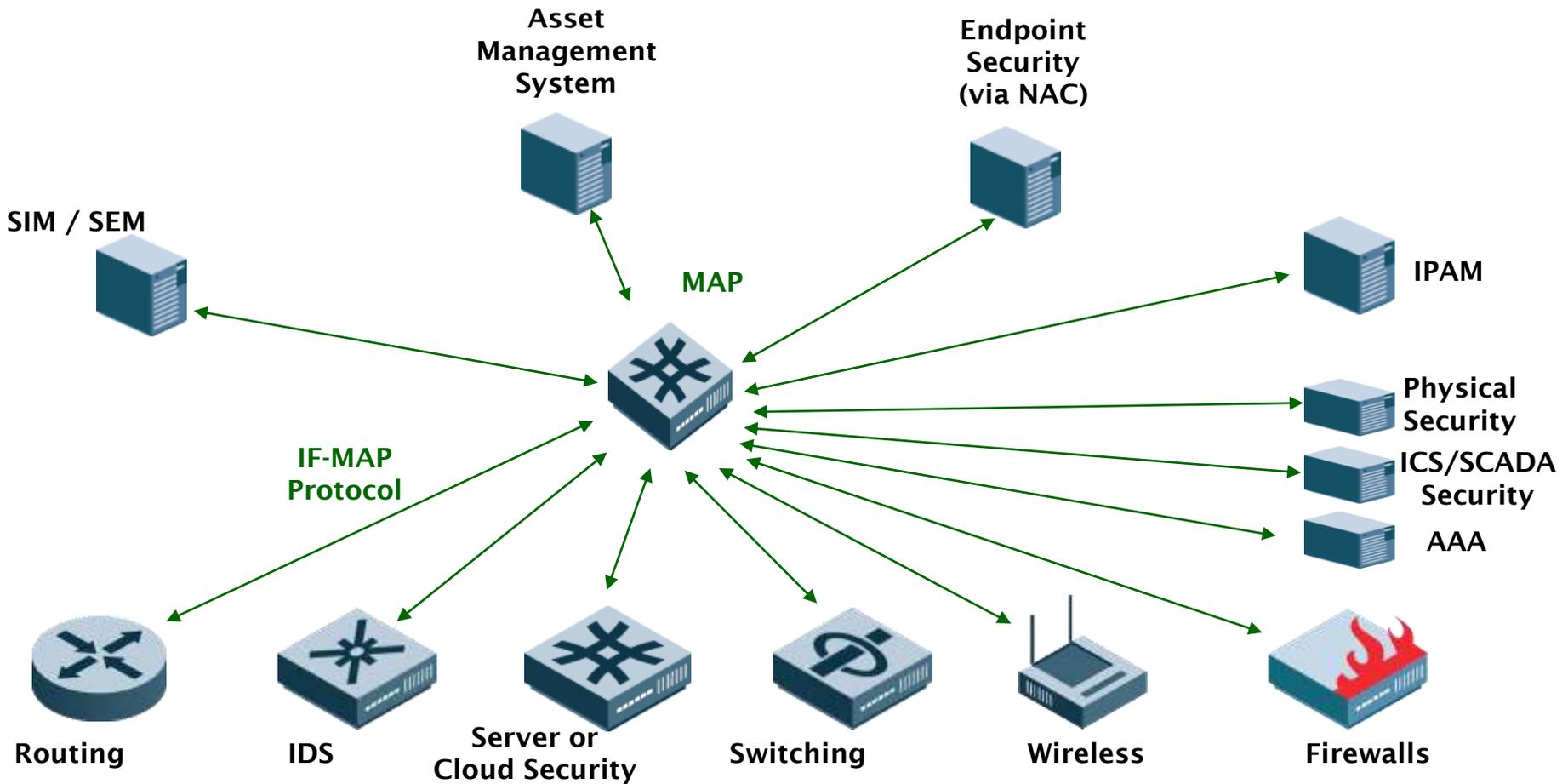
# Typical IF-MAP Graph



## Variants:

- Network Sensors
- Location-Awareness
- ICS/SCADA
- Smart Grid
- Mobile Devices
- BYOD
- Cloud
- Multi-Domain

# Through Open Standards



# For More Information

Trusted Computing Group (TCG)

<http://www.trustedcomputinggroup.org>

